



Adaptívne zabezpečenie pre SOC tímy

Orchestrácia, Automatizácia a Reakcia



15 Million

Botnet C&C attempts

TW HARTED

PER MINUTE

462,217

Malicious Website

ACCESSES

Blocked Per Minute





5.3 Million

NETWORK INTRUSION
ATTEMPTS

resisted per minute

136,173 **PHISHING**

BLOCKED PER MINUTE





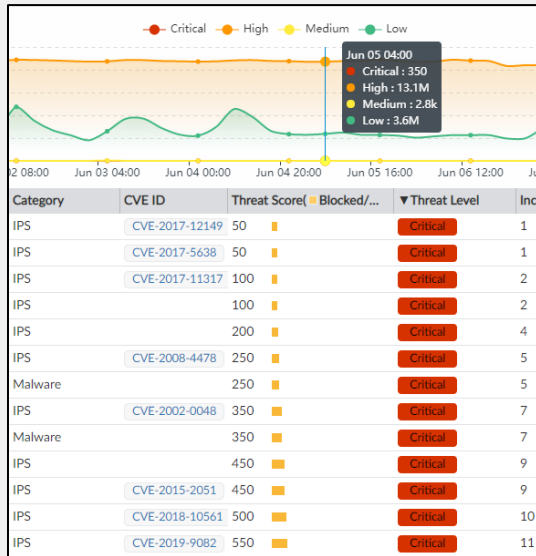
903,860

MALWARE PROGRAMS
Neutralized Per Minute

EVENTS per DAY?

31,395,240,000

SOC Challenges



Alert Overload

- Lot of detection technologies
- Huge volume of data



Disparate Tools

- Multiple consoles like SIEMs, Threat Intels, EDRs, Sandboxes ...
- Limited integration



Manual Processes

- Poor documentation
- Analysts do not follow processes
- Tribal knowledge



Talent Shortage

- global cybersecurity workforce gap 1.8 million by 2022

AI-driven Security Operations

FortiSOAR: Incident Response Component - Alerts & Incidents

A single place to view & organize security data to reduce the manual effort of going to disparate security tools

- Track entire incident life cycle
 - details, status, assigned human, last updated date/time
- Record Linking
 - link assets, users, Indicators and vulnerabilities
- Intuitive and customizable view
 - List/Grid view, filter & search
- Ticket system integration

The screenshot displays the FortiSOAR interface for an incident titled 'Incident-65 | Malware Outbreak'. The interface is divided into several sections:

- Incident Details:** Includes a description 'Targeted attack detected using malware family WannaCry', incident lead 'Prasannakumar Joshi', status 'Open', phase 'Detection', source 'Symantec EDR', and delivery vector 'Email'.
- Type Details:** Shows the type as 'Malware', file hash 'db349b97c37d22f5ea1d1841e3c89eb4', target asset 'legislation2', and device UID '--'.
- Timeline:** A vertical list of events including 'Created On 03/27/2020 09:55 PM', 'Assigned Date 03/27/2020 09:55 PM', 'Resolved Date Select Date', 'Acknowledge SLA', 'Ack Due Date 03/27/2020 10:15 PM', 'Ack Date -NA-', 'Ack SLA --', 'Response SLA', 'Response Due Date 03/27/2020 10:25 PM', 'Response Date -NA-', 'Response SLA --', and 'Phase Times'.
- Comments:** A list of comments from users like Amit Jain and Dave Johnson, detailing the incident's progress, such as 'Notified P1 asset owners about critical asset being infected' and 'Access provided'.
- Graph Elements:** A visual representation of the incident's context, showing indicators, assets, alerts, vulnerabilities, and incidents linked together.

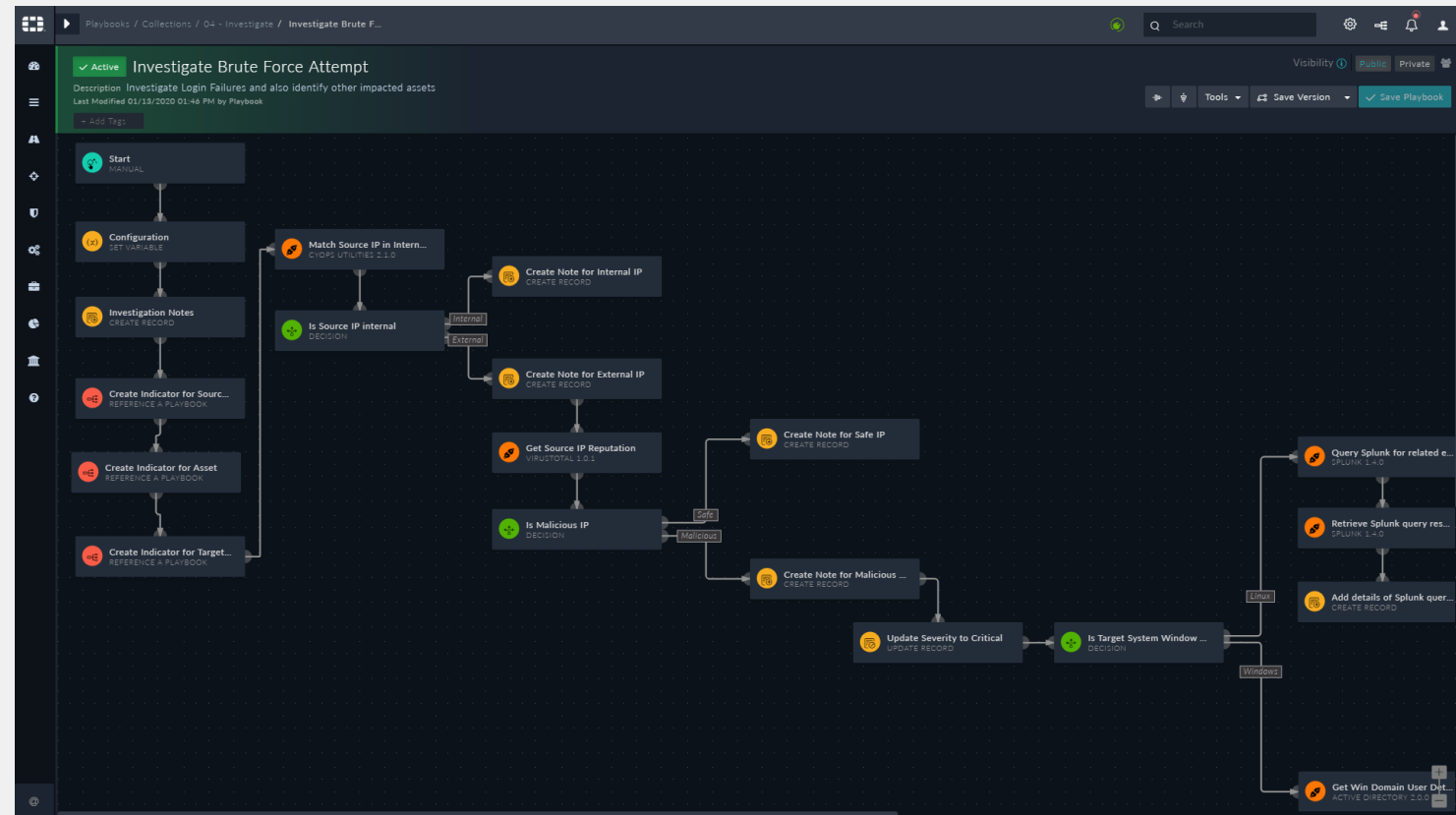
AI-driven Security Operations

FortiSOAR: Orchestration and Automation with playbooks



Build your best practices and entire workflow into the playbooks for consistent Incident handling and response

- Drag and drop to modify or add a step to a playbook
- Variety of selection choices from graphical menus
 - Create/Update/Find records
 - Logical decisions, approvals and tasks
 - Connectors and utilities
 - Nested playbooks



AI-driven Security Operations

FortiSOAR: Workspace collaboration & Knowledge Sharing



Each incident or alert has a workspace pane with a built-in 'chat' channel for SOC analysts to collaborate and perform actions

- Workspace Comment Panel
- Use Knowledge Sharing Component to create SOC Wiki for knowledge sharing and team collaboration

The screenshot displays the FortiSOAR workspace interface. At the top, there's a 'Workspace' tab. Below it, a 'SOC Wiki' section is visible, titled 'SOC Wiki-Phishing', which is 'In Use'. It includes a 'Last Modified' timestamp and a list of tags: BEC, Phishing, Smishing, Spoofing, and Whaling. The main content area shows a 'Phishing' incident response plan. The plan text states: 'This incident response plan describes step-by-step procedures for handling user reported phishing attempts against WoodenBazaar associates. The goal is to prevent attackers from successful phishing attack. The response processes will include preparation to block phishing attempts, identification of threats in case of actual attack, containment and remediation procedures that finally ends with implementing preventive controls in organization network.'

Below the text, there's a navigation bar with tabs: Prepare, Detect & Analyze, Containment, Eradication, Recovery, and Post Incident Handling. The 'Prepare' tab is selected, showing an 'IR Plan Flowchart'.

The flowchart, titled 'INCIDENTRESPONSE.COM ONLINE INCIDENT RESPONSE COMMUNITY' and 'PREPARE - PHISHING', starts with a 'START' node, leading to 'Determine Core Ops Team & Define Roles'. This is followed by a sequence of three trapezoidal boxes: 'Vulnerability Manager', 'Threat Manager', and 'Risk Manager'. A final box, 'Review & Maintain Timeline', is connected to the first box. The flowchart is set against a grid background.



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FortiSOAR: Incident War Room

Advanced crisis management and real-time team collaboration, built around four pillars –**Communicate, Coordinate, Investigate, Escalate**

- Internal information gathering
- Internal communication & visibility to executives and employees
- Shared situational awareness across teams
- Built-in task management, investigation arena, collaboration, reporting, announcements and much more for streamlining P1 investigations

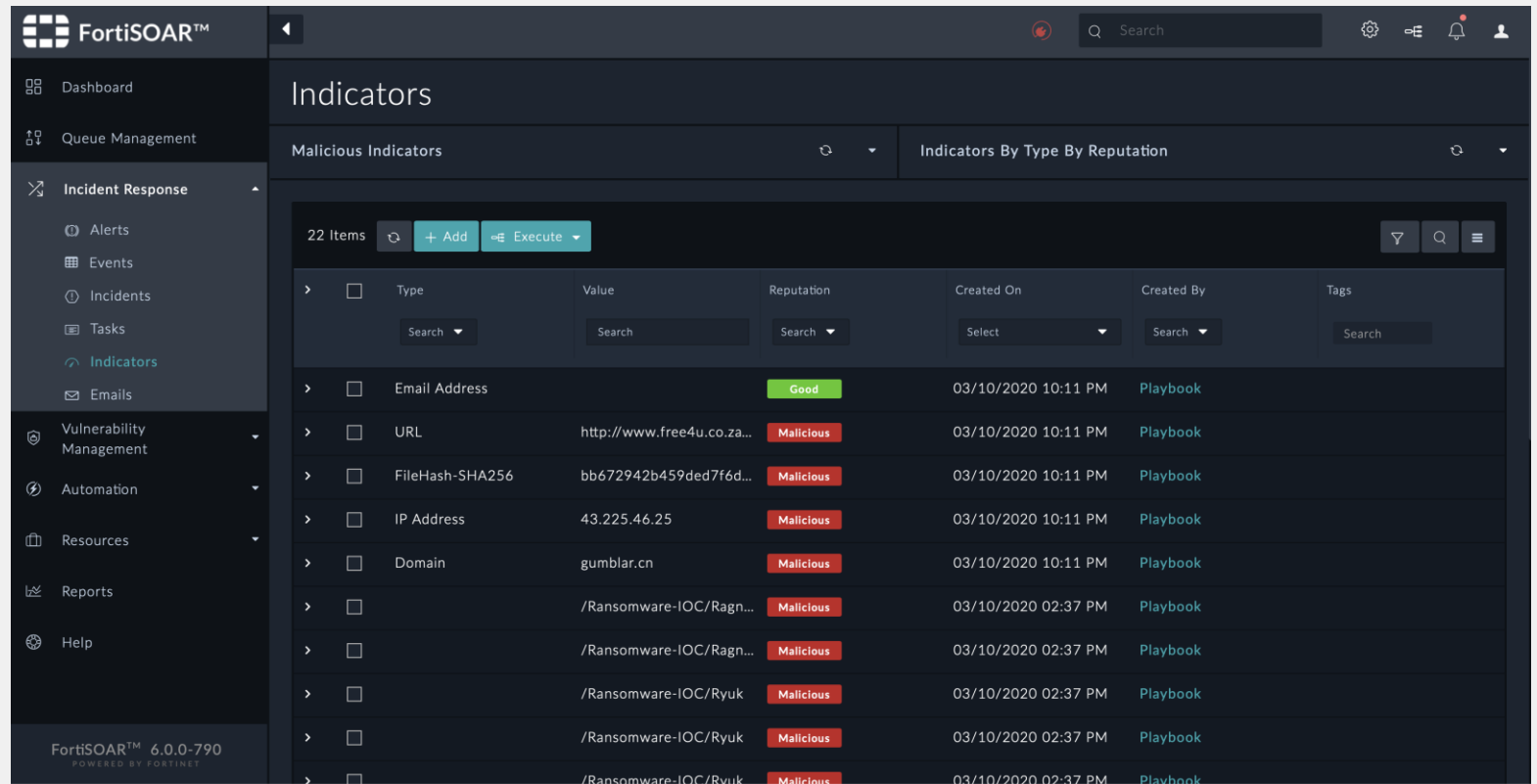
The screenshot displays the FortiSOAR Incident War Room interface. At the top, a header bar indicates the incident title "War Room: Malware detected on multiple host" and its status "Active". Below this, a navigation bar shows tabs for "Malware", "Clon", "Windows", and "Lateral Movement". The main dashboard features four key metrics: "Time Elapsed" (4h 43m), "Assets Impacted" (31, with 02 Critical), "Artifacts Analyzed" (123, with 21 Malicious), and "Threat Types" (03, including Phishing, Malware, and Lateral Movement). A summary section provides a detailed overview of the incident, mentioning the detection of "Clon" ransomware on February 15th, 2021. Below the summary, the "Current Status" is updated, showing that all critical systems are isolated, the initial survey is complete, 122 systems are infected, and email updates have been sent. The bottom section, titled "Incidents, Indicators, Assets & Other Artifacts Involved", lists specific details for incidents, indicators (including FileHash-MD5), and assets. The interface is designed for real-time collaboration and decision-making during a security incident.

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FortiSOAR: Threat Intel Management – Indicators

Managing multiple TI formats and sources from a central location and link the threat data to alerts and incidents

- Extracts threat intel from alert data, uploaded files, emails, and external threat intelligence sources
- Store the threat info in the DB for other modules to use



The screenshot displays the FortiSOAR web interface for managing indicators. The left sidebar contains navigation options: Dashboard, Queue Management, Incident Response (with sub-items Alerts, Events, Incidents, Tasks, Indicators, and Emails), Vulnerability Management, Automation, Resources, Reports, and Help. The main panel is titled 'Indicators' and shows a list of 'Malicious Indicators'. The table includes columns for Type, Value, Reputation, Created On, Created By, and Tags. The first row shows an 'Email Address' with a 'Good' reputation. Subsequent rows show various indicators with 'Malicious' reputations, including a URL, FileHash-SHA256, IP Address, Domain, and several Ransomware-IOC entries.

Type	Value	Reputation	Created On	Created By	Tags
Email Address		Good	03/10/2020 10:11 PM	Playbook	
URL	http://www.free4u.co.za...	Malicious	03/10/2020 10:11 PM	Playbook	
FileHash-SHA256	bb672942b459ded7f6d...	Malicious	03/10/2020 10:11 PM	Playbook	
IP Address	43.225.46.25	Malicious	03/10/2020 10:11 PM	Playbook	
Domain	gumblar.cn	Malicious	03/10/2020 10:11 PM	Playbook	
	/Ransomware-IOC/Ragn...	Malicious	03/10/2020 02:37 PM	Playbook	
	/Ransomware-IOC/Ragn...	Malicious	03/10/2020 02:37 PM	Playbook	
	/Ransomware-IOC/Ryuk	Malicious	03/10/2020 02:37 PM	Playbook	
	/Ransomware-IOC/Ryuk	Malicious	03/10/2020 02:37 PM	Playbook	
	/Ransomware-IOC/Rvuk	Malicious	03/10/2020 02:37 PM	Playbook	



AI-driven Security Operations

FortiSOAR: ML-Powered Recommendation Engine

Machine-learning based clustering strategy added to the FSR Recommendation Engine, making it more powerful and dynamic

- Allows to choose desired ML model
- Users can decide training frequency
- Users can specify on what parameters will the model be trained and for what kind of predictions it will be used
- Users can leverage the results for similar threats, field predictions and auto-population of fields during ingestion

Recommendation Engine

FortiSOAR Recommendation Engine empowers the product intelligence framework to suggest ranked threat similarities and field predictions, thereby helping investigators. You can choose a suitable recommendation strategy and tune it to match your requirements.

Status

✓ Enabled

Recommendation Strategy

Select a preferred recommendation strategy.

☐

Elasticsearch Based Text Classification

Based on the analysis of the similar record search, powered by Elasticsearch's highly efficient algorithms and on analyzing the search results.

☒

Machine Learning Based Clustering

Based on training the engine on your existing FortiSOAR instance data, using the traditional machine learning supervised classification algorithms, such as

Selected Recommendation Connector

FortiSOAR ML Engine

Benefits of SOAR solution



Analyst Productivity (3-10 times)



Faster Response Time To Alerts
(80% faster)



Reduce Volume Of Alers



FORTINET®